

## IN THE CLAIMS

1. (currently amended) A method for assigning timeslots for a particular cell of a hybrid time division multiple access/code division multiple access communication system, the system having a plurality of cells comprising the particular cell and other cells, the method comprising:

determining potentially interfering ones of the other cells which potentially interfere with the particular cell;

for each timeslot, eliminate that timeslot for uplink communication, if first ones of the potentially interfering ones uses that timeslot for downlink communications;

for each timeslot, eliminate that timeslot for downlink communication if a dynamic interference measurement in that timeslot as measured by most users exceeds a predetermined threshold and if a dynamic interference measurement in that timeslot does not exceed the predetermined threshold for most users but exceeds the predetermined threshold for at least one user, if a dynamic interference measurement in that timeslot exceeds a predetermined threshold eliminating that timeslot for assignment to the at least one user exceeding the predetermined threshold;

assigning a timeslot to an uplink communication of the particular cell using non-uplink eliminated ~~elimination~~ timeslots; and

assigning a timeslot to a downlink communication of the particular cell to each user the at least one user using non-downlink eliminated timeslots with respect to that user.

2. (original) The method of claim 1 wherein the first ones are base station to base station interfering cells to the particular cell.

3. (original) The method of claim 2 wherein the base station to base station interfering cells are determined by using link gains between base stations.

4-8. (canceled).

9. (original) The method of claim 1 wherein the hybrid time division multiple access/code division multiple access communication system is a time division duplex communication system using code division multiple access.

10. (currently amended) A hybrid time division multiple access/code division multiple access communication system comprising:

a plurality of cells including a particular cell and other cells;

the particular cell comprising:

means for determining potentially interfering ones of the other cells which potentially interfere with the particular cell;

means for each timeslot, for eliminating that timeslot for uplink communication, if first ones of the potentially interfering ones uses that timeslot for downlink communications;

means for assigning a timeslot to an uplink communication using non-uplink eliminated timeslots;

means for each timeslot, for taking a dynamic interference ~~measurement~~ measurements in a timeslot by users and eliminating that timeslot for downlink communication if the dynamic measurements for most users exceeds a predetermined threshold and if the dynamic measurements for most users does not exceed the predetermined threshold, that timeslot is eliminated for downlink communication for the users exceeding the threshold for at least one user if the dynamic measured interference exceeds a threshold; and

means for ~~the at least one user~~ for assigning a timeslot to ~~a downlink communication using non-downlink eliminated timeslots~~ to one of the users using non-eliminated timeslots with respect to that user.

11. (original) The system of claim 10 wherein the first ones are base station to base station interfering cells to the particular cell.

12. (original) The system of claim 11 wherein the base station to base station interfering cells are determined by using link gains between base stations.

13-17.(canceled).

18. (original) The system of claim 10 wherein the hybrid time division multiple access/code division multiple access communication system is a time division duplex communication system using code division multiple access.

19. (currently amended) A hybrid time division multiple access/code division multiple access communication system comprising:

a plurality of cells including a particular cell and other cells;

a radio network controller associated with the particular cell comprising:

a resource allocation device for determining potentially interfering ones of the other cells which potentially interfere with the particular cell; for each timeslot, eliminating that timeslot for uplink communication, if first ones of the potentially interfering ones uses that timeslot for downlink communications; and for each timeslot, for eliminating that timeslot for downlink communication for at least one user, if a dynamic interference measurement in that timeslot exceeds a predetermined threshold and eliminating that timeslot for all users if a dynamic interference measurement for most users exceeds the threshold; and

a node-B associated with the particular cell comprising an assignment and release device for assigning an uplink communication using non-uplink eliminated timeslots and for assigning a downlink communication to ~~the at least one~~ each user, using non-downlink eliminated timeslots with respect to that user.

20. (original) The system of claim 19 wherein the first ones are base station to base station interfering cells to the particular cell.

21. (original) The system of claim 20 wherein the base station to base station interfering cells are determined by using link gains between base stations.

22-26. (canceled).

27. (original) The system of claim 19 wherein the hybrid time division multiple access/code division multiple access communication system is a time division duplex communication system using code division multiple access.

28. (currently amended) A method for assigning timeslots in a particular cell of a hybrid time division multiple access/code division multiple access communication system, the particular cell comprising a base station and a plurality of user equipments, the method comprising:

- (a) estimating timeslots having an unacceptable dynamically measured interference for uplink communications with respect to the base station;
- (b) estimating timeslots having an unacceptable dynamically measured interference for downlink communication with respect to the user equipments;
- (c) producing an availability list indicating available uplink and downlink timeslots having acceptable dynamically measured interference levels at a radio network controller and sending the availability list to the base station; and
- (d) at the base station, assigning uplink and downlink timeslots using the sent availability list.

29. (original) The method of claim 28 wherein the step (a) comprises measuring an interference level in each timeslot at the base station and comparing the measured level to a threshold to estimate unacceptable interference.

30.-32. (canceled).

33. (currently amended) A hybrid time division multiple access/code division multiple access communication system comprising:

a particular cell comprising:

a base station and a plurality of user equipments;

first means for estimating timeslots having an unacceptable dynamically measured interference with respect to the base station;

second means for estimating timeslots having an unacceptable dynamically measured interference for downlink communication with respect to the user equipments;

~~third means~~ a radio network controller for producing an availability list indicating available uplink and downlink timeslots having acceptable dynamically measured interference levels and sending the availability list to the base station; and

~~fourth means~~ a base station for assigning uplink and downlink timeslots using the sent availability list.

34. (original) The system of claim 33 wherein the first means measures an interference level in each timeslot at the base station and compares the measured level to a threshold to estimate unacceptable interference.

35. (canceled).

36. (original) The system of claim 33 wherein the second means measures an interference level in each timeslot by each user equipment and comparing the measured levels to a threshold to estimate unacceptable interference.

**Applicant:** Ozluturk et al.  
**Application No.:** 10/335,347

37.-42. (canceled).